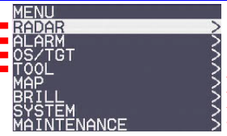
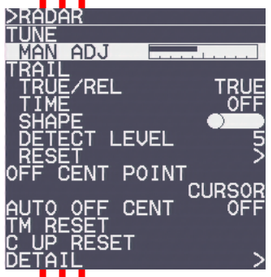
KODEN MDC-2900 series Quick Reference

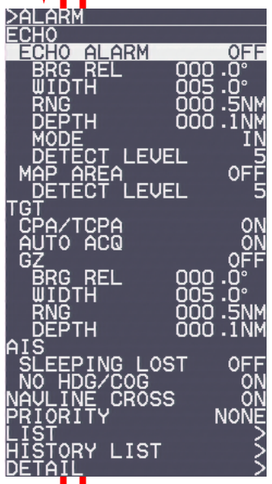
MENU TREE

Press [MENU] key of operation unit to access MENU.

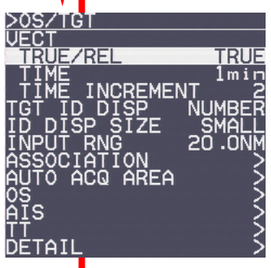




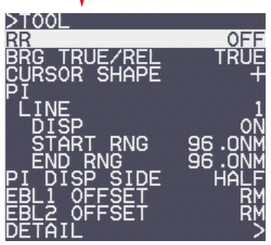
TUNE MAN ADJ	Sets up manual tuning by bar.
TRUE/REL	Selects TRUE or REL for TRAIL record and display.
TIME	Selects time for TRAIL record and display. (OFF, PERM, 1min, 3min, 6min, 12min, 24min and 48min)
SHAPE	Selects display mode of recorded TRAIL.(●▬, ●—, ●▰, ●▰▰)
DETECT LEVEL	Selects target echo level for TRAIL recording. (1 to 6)
RESET	Erases recorded and displayed TRAIL.
OFF CENT POINT	Sets up direction of off center. (CURSOR, OPPOSITE)
AUTO OFF CENT	Shifts down reference point to give wider view in front of own ship.
TM RESET	Manual reset of reference point to the stern position.
C UP RESET	Reset and renew curse direction to the top.
DETAIL	Detailed setting of RADAR menu.



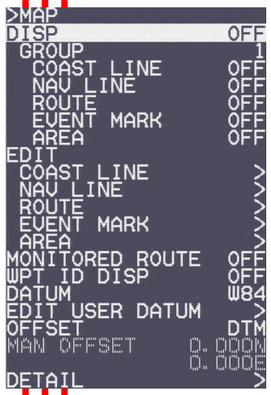
ECHO ALARM	ECHO ALARM display and alarm zone setting. (OFF, EDIT, ON)
BRG REL	Direction of alarm zone center.
WIDTH	Bearing width of alarm zone.
RNG	Distance of alarm zone start.
DEPTH	Distance width of alarm zone.
MODE	MODE provides alarm display when ECHO enters to or leaves from the setup area.
DETECT LEVEL	Sets up target strength level to active ECHO ALARM. (1 to 7)
MAP AREA	MAP AREA provides alarm display when ECHO enters to or leaves from the setup area.
DETECT LEVEL	Sets up target strength level to active AREA ALARM. (1 to 7)
CPA/TCPA	Selects ON or OFF for alarm of CPA/TCPA.
AUTO ACQ	Selects ON or OFF for alarm of AUTO ACQ.
GUARD ZONE	GUARD ZONE display and alarm zone setting. (OFF, EDIT, ON)
BRG REL	Direction of alarm zone center.
WIDTH	Bearing width of alarm zone.
RNG	Distance of alarm zone start.
DEPTH	Distance width of alarm zone.
SLEEPING LOST	Alarm for loss of sleeping target.
NO HDG/COG	Alarm for loss of HDG/COG of active target.
NAVLINE CROSS	Alarm for crossing NAVLINE.
PRIORITY	Selects priority for alarm display.(NONE, RADAR, AIS, NAV, EPFS, SDME, GYRO)
LIST	Indicates alarm list.
HISTORY LIST	Indicates alarms history list.
DETAIL	Detailed setting of ALARM menu.



TRUE/REL	Selects TRUE or REL for TRAIL display.
TIME	Vector length by time. (OFF, 30sec, 1min, 3min, 6min, 12min, 30min and 60min)
TIME INCREMENT	Selects dividing number for vector time. (OFF, 2, 3, 5 and 10)
TGT ID DISP	Selects ID display item. (OFF, NUMBER, LABEL, BOTH)
ID DISP SIZE	Selects display size of TGT ID. (X-SMALL, SMALL, MIDDLE, LARGE)
INPUT RNG	Selects operation zone for AIS and TT. (1.0 to 20.0NM)
ASSOCIATIN	Selects association mode.
AUTO ACQ AREA	Selects and sets for AUTO ACQ AREA.
OS	Selects and sets for OS.
AIS	Selects and sets for AIS.
TT	Selects and sets for TT.
DETAIL	Detailed setting of OS/TGT menu.

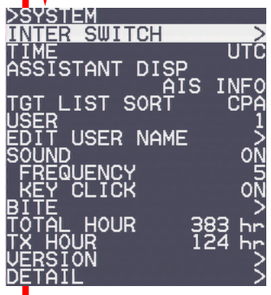


RR	Selects ON or OFF for range rings.
BRG TRUE/REL	Selects TRUE or REL for bearing.
CURSOR SHAPE	Selects cursor shape.
LINE	Selects number of PI line. (1 to 7)
DISP	Selects ON or OFF for PI line.
START RNG	Selects start range for PI line. (-96.0 to 96.0NM)
END RNG	Selects end range for PI line. (-96.0 to 96.0NM)
PI DISP SIDE	Selects display mode for PI. (HALF, FULL)
EBL1 OFFSET	Selects EBL1 display mode. (TM, RM)
EBL2 OFFSET	Selects EBL2 display mode. (TM, RM)
DETAIL	Detailed setting of TOOL menu.

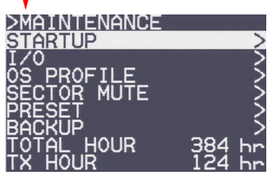


DISP	Selects ON or OFF for entire MAP function.
GROUP	Selects display group. (1 to 20)
COAST LINE	Selects display block. (OFF, 1 to 20, ALL)
NAV LINE	Selects display block. (OFF, 1 to 20)
ROUTE	Selects display block. (OFF, 1 to 20)
EVENT MARK	Selects display block. (OFF, 1 to 20, ALL)
AREA	Selects display block. (OFF, 1 to 20)
COAST LINE	Sets up COAST LINE.
NAV LINE	Sets up NAV LINE.
ROUTE	Sets up ROUTE.
EVENT MARK	Sets up EVENT MARK.
AREA	Sets up AREA.
MONITORED ROUTE	Selects ON or OFF for route from external device.
WPT ID DISP	Selects ON or OFF for way point of the route.
DATUM	Selects datum. (W84, W72, S85, P90 and **) **: User datum
EDIT USER DATUM	Sets up user datum name.
OFFSET	Selects data input of position offset. (EPFS [DTM sentence], MAN)
MAN OFFSET	Sets up manual position offset for LAT/LON.
DETAL	Detailed setting of MAP menu.

COLOR	Selects color for day or night.
ECHO	Selects color for target echo. (WHITE, YELLOW, GREEN, MULTI, USER1, USER2)
TRAIL	Selects color of trail. (BLUE, AMBER, USER1, USER2)
BKGND PPI	Selects back ground color of PPI. (BLACK, BLUE, USER1, USER2)
BKGND DATA	Selects color of back ground for data. (BLACK, BLUE, USER1, USER2)
DATA	Selects color of data. (WHITE, GREY, USER1, USER2)
BRIGHTNESS	Sets up brightness.
DETAIL	Detailed setting of BRILL menu.



INTER SWITCH	Sets up inter switch for 2 radar operation.
TIME	Selects time. (UTC, LOCAL)
ASSISTANT DISP	Selects ASSISTANT DISP in lower right of the screen. (NAV INFO, TGT OUTLINE, TGT LIST, AIS INFO)
TGT LIST SORT	Selects sorting method for TGT LIST. (CPA, TCPA, BCR, BCT, RNG, TGT, SEL)
USER	Selects operational configuration out of 4.
EDIT USER NAME	Sets up user name.
SOUND	Selects ON or OFF for alarm buzzer on the panel.
FREQUENCY	Selects frequency of alarm buzzer sound. (1 to 7)
KEY CLICK	Selects ON or OFF for key click sound.
BITE	For diagnosis of system trouble.
TOTAL HOUR	Indicates total operation hour of the system.
TX HOUR	Indicates total transmitting hour of the TX.
VERSION	Indicates firmware versions.
DETAIL	Detailed setting of SYSTEM menu.



START UP	Performs default setting after installation.
I / O	Sets up I/O configuration.
OS PROFILE	Sets up own-ship profile and ANT location.
SECTOR MUTE	Sets up no transmission for designated bearing sector.
PRESET	Set up default adjustment for GAIN, SEA, RAIN, and etc.
BACKUP	Stores set up value.
TOTAL HOUR	Erases total operation hour of the system.
TX HOUR	Erases total transmitting hour of the TX.

KODEN MDC-2900 series Quick Reference

SCREEN OPERATION

1 Display mode — Indicates and sets up display mode. ([HUP RM], [CUP RM], [CUP TM], [NUP RM] and [NUP TM])

2 Range rings — Indicates and sets up range ring spacing. (OFF, ON)

3 Range — Indicates and sets up range. (0.125, 0.25, 0.5, 0.75, 1.5, 3, 6, 12, 24, 48 and 96)

4 STAB — Indicates and sets up stabilization mode. (SEA, GND)

5 Antenna position — Indicates antenna position for operation with inter switch. (PORT, STBD, FWD, MID, AFT, FWD PORT, FWD STBD, MID PORT, MID STBD, AFT PORT, AFT STBD, UPPER and LOWER)

6 Off center — Indicates when off center is ON for broader forward outlook.

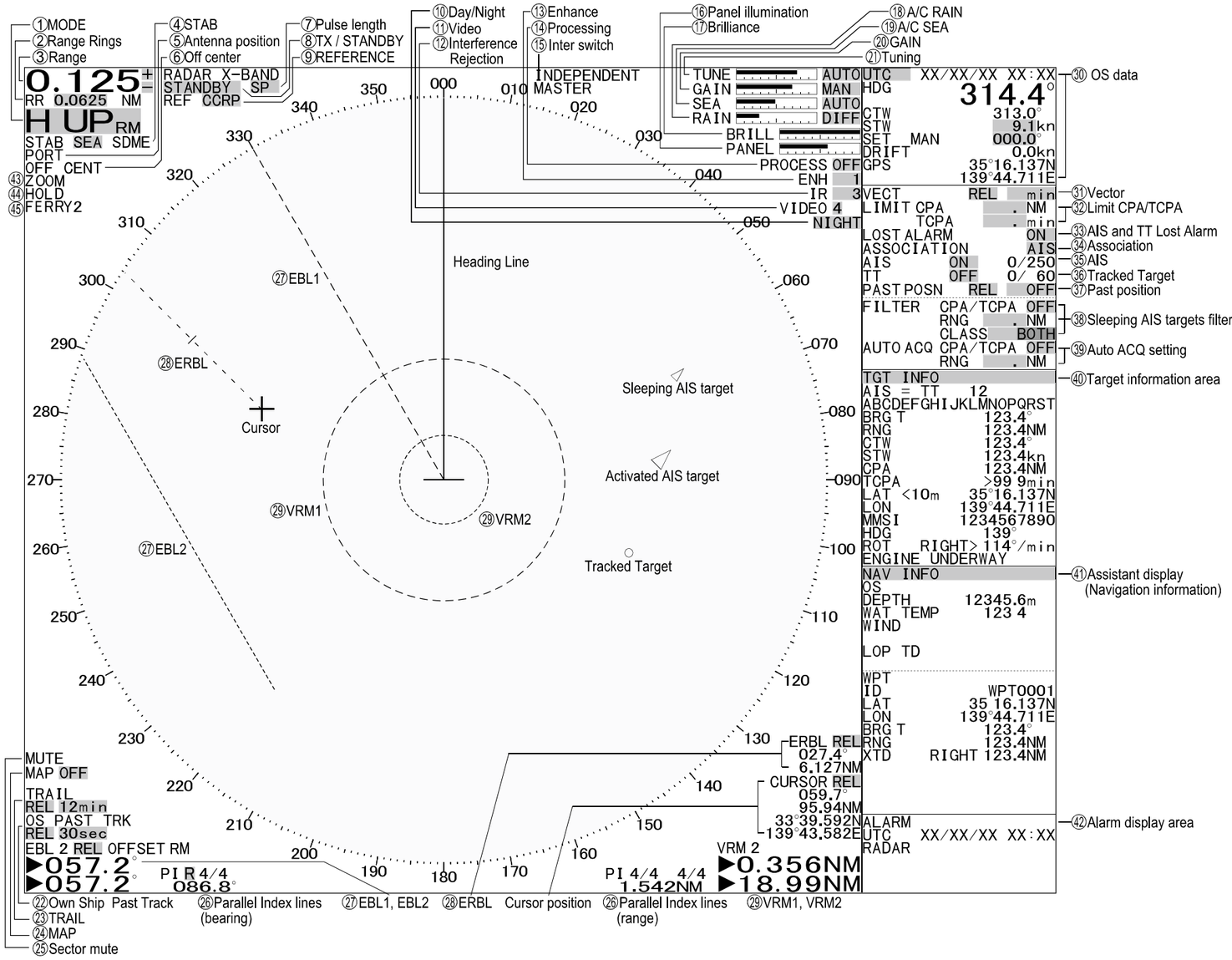
7 Pulse length — Indicates and sets up transmission pulse length. (SP, MP1, MP2, MP3, MP4, LP1 and LP2)

8 TX / Standby — Indicates and sets up transmission. (TRANSMIT, STANDBY)

9 Reference — Indicates and sets up the reference point which is used as reference point for range, bearing, relative course, relative speed, CPA and TCPA. (CCRP, ANT)

10 Day / Night — Indicates and sets up Day/Night. (DAY, NIGHT)

11 Video — Indicates and sets up video enhancement number for better discrimination in short range. (0, 1, 2, 3 and 4)



12 IR — Indicates and sets up interference rejection number to avoid interference from other radars. (OFF, 1, 2, 3, 4 and 5)

13 Enhance — Indicates and sets up enhancement number for ease of small target detection by expanding target echo. (OFF, 1, 2 and 3)

14 Processing — Indicates and sets up correlation number for radar image correlation processing antenna rotation by rotation to discriminate target image from random image such as sea clutter. (OFF, 1, 2 and 3)

15 Inter switch — Indicates inter switch setting. (INDEPENDENT MASTER, INDEPENDENT SLAVE, DUAL MASTER, DUAL SLAVE, CROSS and MONITOR)

16 Panel illumination — Indicates panel illumination level of operation unit by bar.

17 Brilliance — Indicates illumination level of display unit by bar.

18 Ani-clutter RAIN — Indicates level of rain clutter adjustment by bar and setting. (DIFF, CFAR)

19 Anti-clutter SEA — Indicates level of sea clutter adjustment by bar and setting. (AUTO, MAN)

20 GAIN — Indicates level of gain adjustment by bar and setting. (AUTO[CFAR mode only], MAN)

21 Tuning — Indicates level of tuning adjustment by bar and setting. (AUTO, MAN)

22 Own ship past track — Indicates and sets up for own ship track. (TRUE, REL), (OFF, 30sec, 1min, 3min, 6min, 12min, 30min and 60min)

23 TRAIL — Indicates and sets up for target echo. (TRUE, REL), (OFF, PERM, 1min, 3min, 6min, 12min, 24min and 48min)

24 MAP — Indicates for MAP function.(OFF, ON)

25 Sector mute — Indicates sector mute is ON.

26 Parallel Index lines — Indicates number of parallel index line selected, (line number/total number of display) and its bearing and range.

27 EBL — Indicates bearing of EBL1 (upper) and EBL2 (lower).

28 ERBL — Indicates bearing and distance from cursor position.

29 VRM — Indicates distance from reference point for VRM1 (upper) and VRM2 (lower).

30 OS data — Heading, CTW/STW, COG/SOG, set/drift and position.

31 Vector — Indicates and sets up vector. (TRUE, REL), (OFF, 30sec, 1min, 3min, 6min, 12min, 30min and 60min)

32 Limit CPA/TCPA — Indicates and sets up closest point of approach limit by distance and time for hazard prevention. (0.1 to 19.9 NM), (1.0 to 63.0 min)

33 AIS and TT Lost alarm — Indicates and sets up lost alarm for AIS and tracked target. (OFF, ON)

34 Association — Indicates and sets up association function to combine AIS and TT targets.(OFF, AIS, TT)

35 AIS — Indicates and sets up AIS data usage. (OFF, ON)

36 Target Tracking — Indicates and sets up target tracking function. (OFF, ON)

37 Past position — Indicates and sets up past position of AIS and TT targets. (TRUE, REL), (OFF, 30sec, 1min, 3min, 6min, 12min, 30min and 60min)

38 Sleeping AIS targets filter — Indicates and sets up sleeping target function to avoid congested display. Limitation can be set by LIMIT CPA/TCPA, RNG, and CLASS. (OFF, ON), (0 to 20.0 NM), (OFF, A, B, BOTH)

39 Auto Acquisition setting — Indicates and sets up auto acquisition to revived targets sleeping by FILTER. (OFF, ON), (0 to 20.0 NM)

40 Sleeping AIS targets filter — ndicates detail of the AIS and TT target with mark. Press [ENT] key by moving cursor to a desired target to select.

41 Assistant display — Indicates various information. (NAV INFO, TGT OUTLINE, TGT LIST, AIS INFO, BIRD VIEW, WIDE VIEW)

42 Alarm display area — Indicates alarm when activated.

43 Zoom — Indicates when ZOOM is ON.

44 Hold — Indicates when HOLD is ON.

45 Video mode — Indicates when VIDEO is ON.

Most set up is performed by moving cursor to desired item and pressing [ENT] key for selection.